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Approval or Disapproval Letter	
Date Completed, P. & A. or.	
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Affidavit and Record of A & P	
Water Shut-Off Test	
Gas-Oil Ratio Test	1
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(SUBMIT IN TRIPLICATE)

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Contract	Mo.	I-149-Ind-88	i.

UNITED STATES

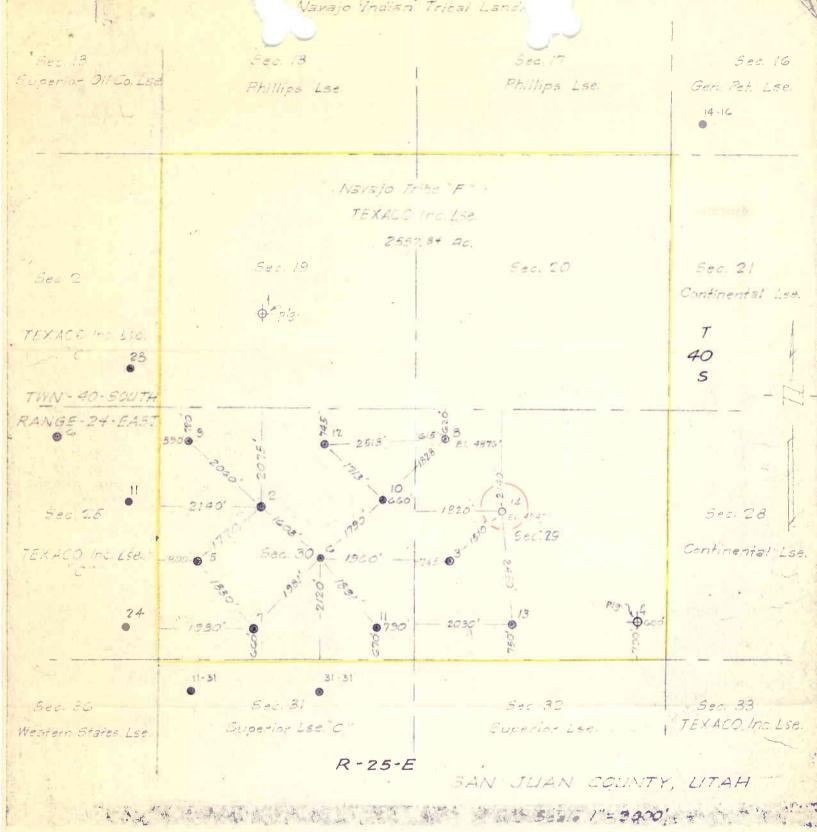
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Allottee		
Lease No	·	

OTICE OF INTENTION TO C	RILLHANGE PLANSEST WATER SHUT-OFFEDRILL OR REPAIR WELL.	SUBSEQU	ENT REPORT OF ENT REPORT OF	WATER SHUT-OFFSHOOTING OR ACIDIZINGALTERING CASING	
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					, 19.60
SR/4 NW/4 Sec. (14 Sec. and Sec. No.) Anoth	. 29 T-40-S (Twp.) San	R-25-E (Range)	31. (Me	ft. from W line of se	, 1/
()4 Sec, and Sec, No.) Anoth (Field) the elevation of the description of the descripti	errick floor above s	(Range) Juan County or Subdivision) ea level is ETAILS OF We how sizes, weights, and	58 ft. ORK	ft. from W line of se	jobs, coment-
SR/4 NW/4 Sec. (4 Sec. and Sec. No.) Aneth (Field) The elevation of the distance names of and expected of the control of the	lerrick floor above s	(Range) Juan County or Subdivision) ea level is ETAILS OF We how sizes, weights, and	58 ft. ORK	ft. from W line of se	jobs, coment-

PORMA: Chinie Shina Organ I Hermosi O sx. Lamay Desert Creak Total Depth

I understand that this plan of work must receive approval in writing b	y the Geological Survey before operations may be commenced.
Company P. O. Box 3109	TEXACO Inc.
Address Midland, Texas	Emilion Street
Address	By W.C. Lens, Gen. Superintendent
	By W.C. Lens, Gen. Superintendent Drilling and Production
	Title



This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

W.C. Phillips, Head Draftsman

February 15, 1960

Texaco, Inc. P. O. Box 3109 Midland, Texas

Attention: W. C. Lenz,

General Superintendent Drilling & Production

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo Tribe F-14, which is to be located 2140 feet from the north line and 1820 feet from the west line of Section 29, Township 40 South, Range 25 East, SLBM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

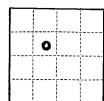
OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE SECRETARY

CBF: co

cc: P. T. McGrath, Dist. Eng. U. S. Geological Survey Farmington, New Mexico

(SUBMIT IN TRIPLICATE) Indian A



Loase No. I-149-IND-8839
Allottee
Indian Agency

avajo Tribe "F"	cated 2140 ft. from N line	March 17	
SBA of Sec. 29 (14 Sec. and Sec. No.)		(Meridian)	
Ane th	San Juan (County or Subdivision)	Utan (State or Territor	ry)
ne elevation of the derrick	DETAILS OF WO objective sands; show sizes, weights, and ing points, and all other important March 11, 1960.	lengths of proposed casings; indicate mu	dding jobs, cemer

 $\mathscr{V}_{n_{i_{n}}}$

Form 9-331 b (April 1952)			
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(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

Allottee
Lease No. 1=149=IND=8839

	SUNDRY NOTICES AN	D REPORTS ON WELLS
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	(INDICATE ABOVE BY CHECK MARK NA	TURE OF REPORT, NOTICE, OR OTHER DATA)
	ribe "F" 14 is located 2, 140 ft. from 15 Sec. 29 40-8 25; and Sec. No.)	April 28, 19.66 $ \begin{pmatrix} N \\ S \end{pmatrix} $ line and 1,820ft. from $ \begin{pmatrix} E \\ W \end{pmatrix} $ line of sec. 29 Range) (Meridian)
Aneth		nUtah
Drille O.D. c	ing points, and all other ed 6-3/4" hole to 5,975' asing at 5,974' with 250	weights, and lengths of proposed casings; indicate mudding jobs, come or important proposed work) and cemented 5,964° of 4-1/2° osacks of cement. Top of with 1000% pressure for 30
I understand	that this plan of work must receive approval in wr	iting by the Geological Survey before operations may be commenced.
ompany	TEXACO Inc.	
\ddress	Eox 817	· · · · · · · · · · · · · · · · · · ·
~~~~	Farmington, New Mexico	By 22.7.2.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
		Title Asst. Dist. Supt.



#### Budget Bureau No. 42-R359.4. Approval expires 12-31-60. ~ Indian Agency Navajo

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Lease No	I-149-IND-8	3839
Allottee		
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SUNDRY NOTICES AND	D REPORTS ON WELLS
NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS.	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING.
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY.
NOTICE OF INTENTION TO ABANDON WELL	
(INDICATE ABOVE BY CHECK MARK NATI	JRE OF REPORT, NOTICE, OR OTHER DATA)
	May 13 , 19 50
Navajo Tribe "F"	, · · · <del></del>
Well No. 14 is located 2,140ft. from	$\left\{\begin{array}{c} N \\ S \end{array}\right\}$ line and 1.820t. from $\left\{\begin{array}{c} T \\ W \end{array}\right\}$ line of sec. 29
SE of Sec. 29 40-S 2 (1/4 Sec. and Sec. No.) (Twp.) (R.	PS-E SLM inge) (Meridian)
Aneth San Jus (Field) (County or Su	****
Total depth 5,975'. Plugged backasing from 5,908' to 5,912' with perforations through 2" tubing wacid. Swabbed well dry and readgallons of regular 15% acid. Peto 5,854' and 5,873' to 5,894' which com 5,878' to 5,894' which com 5,878' to 5,894' with 2,000 Reset packer at 5,837' w/oridge	idized perforations with 2,000 prforated 4-2" casing from 5,847' ith 4 jet shots per foot. Set at 5,854'. Acidized perforations of regular 15% acid. plug at 5,865' and attempted to
acidized perforations from 5,847 of regular 15% acid. Formation pressure. Pulled packer and rep	'to 5,854' with 1,000 callons failed to break down at 4,800# perforated 4-2" casin; from (over)
	Title Asst. Dist. Supt.

5,847' to 5,854' with 2 jet shots per foot. Set packer at 5,820' and acidized perforations 5,847' to 5,854' with 1,000 gallons of regular 15% acid. Removed packer and drove bridge plug to 5,939'. Ran tubing and swabbed 47 barrels of oil and 62 barrels of salt water in 24 hours.

buly .

Form 9-330

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Navajo
SERIAL NUMBER I-149-IND-8839
LEASE OR PERMIT TO PROSPECT

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

#### LOG OF OIL OR GAS WELL

Compa	ny <b>T</b> l	KACO Inc		<del></del>	Address	Box 810	, Farming	ton, N.	N.
Lessor	or Tract -	Navajo	Tribe.	"P"	Field	Aneth	State	Utak	1
							County		
Locatio	n 2140	ft. of N	_ Line an	id <b>1820</b> t.	E. of . 1. 1	Line ofSe	ction 29	Elevatio	n 4958
							well and al		
so far a	s can be	determined fr	om all av	ailable reco	rds.	XIII	ha m_		
	_			Sign	ned		7		
		27, 1960			A .1 11	// Title	/	st. Sup	i.k
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	inced dril	e lone	San jan	- 15% 196	. Finishi	o vedimas	Mer and	d <b>z</b> ove b	SA CASE
reper	rorace Set	a 4-1/2 Dacker at	савлия : 58 <b>20</b> п	L <b>er</b> gas	CALA LACA	inandag	th 2 jet one 5547	<b>8</b> 11008 ]	etti ber
Per ite	Lion I	SAFO FO	break	4647 .8t	#898#4p	ressure.	Fulled	packer	and
Derigo	uora <i>ŭa</i>	e trom se	74 . Lin	5854	with, i. p	<b>w</b> ow and <u>00 gallo</u>	actempto ns of re- Fulled	eular 1	zarze 5% aeld
Ben Po	ration Unitaria	s from Sc reasons	An waring	~ <del>, 명하는 ~,</del> 2	With 250	OC gallo	INS OF TO	Enjar J	5% acid
anote	Low 1	188 20 <b>0</b>	<b>Surge</b>	ទេ ១១៣៩	et 5000.	sug bac	Man ut 5	<u> </u>	<u>Ag1d12e</u>
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ACCITIO	TO MIT ATT	TAN ROTE	OUR OI	T.GS:NT	ar koje ao	TO' DM2	IDDGO MAT	T (31.3 T)	30 La -
<b>₩</b> 0.39	frem	259- H - 982-	\$90000	<del>-cor-roc</del>	t Netto	Home a per	toration	noava-4	977-5
	cauc c	<u>tog to ⊅y</u> c be at p	(030) 1(0 - 80	( b 'BCASI	NG RECOR JEIUを オード Kind of shoe	<u>/2 caa.</u> <b>D</b> orated	η-1\5, ¢ ινει κα <b>υ.</b>	<mark>87 cene</mark> asios C	
Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled i	rom From—	То—	Purpose
307 <b>31/4</b> .	I pangs or	bri <b>dges</b> were p	initial test	for water st	to ame of mare	erial asea, posi	tion, and results	of pumping	or bailing.
8 5 8	re <b>ga</b> is for le	tire rik and i in he well, giv	Queries:	H <b>7420</b> er	e garages 1	mad <b>a forme</b> ca	a netan the date sing, state fully d, give date, sin tion, and results	and if any c	casing was
4-1/2	of the gala	test Secriance	3#1A	5904	Berer	WOLDS:	3 4 4 10 10 3 4 4 4	e of redrilling	togother
			H15	TORY OF	OIL OR G	7 <del>3 M</del> EI I	16-43094-2 u.	S. GOVERNMENT PRIN	TING OFFICE
			MUDE	ING AND	CEMENTI	NG RECOR	D		
/ Size casing	Where se	t Numb	er sacks of ce	ment	Method used	Mud grav	ity A	mount of mud	used
2 2 /8	775		175	He.	llibertor	n			
8-5/8	150		1000		lliburtor	~			
4-1/2	5974		250	Ha	111burtor	3			
	1			PLUCS	AND ADAP	ΓERS			
Heavir	ng plug	Material	None		1		Depth set		·
	ers—Mate	·	None		 Size				
zzanp o			341.05		TING RECO	RD			

None TOOLS USED Rotary tools were used from ______ feet to _____ feet, and from _____ feet to _____ feet Cable tools were used from ______feet to _____feet to _____feet to _____feet **DATES** Put to producing ....., 1960-Tested June 12 ....... 1960 emulsion; ..... % water; and ...... % sediment. Gravity, °Bé. Rock pressure, lbs. per sq. in. Pump test. 54" strokes EMPLOPPE Simute. All measurements from depriler itoor is, spove ground. --- Core Product 2002 - co 201 Driller Becovered 50 to the and State ..., Driller FORMATION RECORD TOTAL FEET 5846 th 5906 ; Redovered 60' of Line and Shale. Core No. 0 20 Surface Rock 56 NO of Lime, Shale and Redo Sand & Shale 2186 186 115 - 17-1/4 HOLE SIZE Fernation tops as per EL. Lime. Shale 8 SBIOL 56401 47821 Total Depth 5975' Organ Rock -29551 Plugged Back Depth 59391 Shinarump - 26461 Chinie - 1700'' Mava o -FURNATION TOPS EROM-**30-**TOTAL FEET POBMATION FORMATION RECORD—Continued

PLUGS AND ADAPTERS
Heaving plug—Material Length Depth set

Size SHOOTING RECORD

Quantity

Depth shot

Depth cleaned out

Explosive used

Adapters-Material

Size

Shell used

#### FORMATION RECORD—Continued

FROM-	то	TOTAL FEET	FORMATION
<b>.</b>			FORMATION TOPS
			Navajo 1008' Chinle 1700'
FINESed	Back Depth	्र _{वि} रुह.	Shinarump 2646'
Total De	pth 5975!		Organ Rock 2955! Hermosa 4782!
5046	5975	252	Ismay 5640'
5015	5046	31 129	Line Shale & Annydrite - 2810.
5/31	5815	ਰੇਜ਼	THE RANGE TONE OF NOW PI
4830 5701	5701 5731	371 30	Lime & Shale Lime
4367	#9 <b>30</b>	463	Shale HOTE SIZE
3211 3809	2:02 4:367	553	Shale & Lime 5 112, - 11-1/4,
2630	3211 3809	521 598	2800 % 1504' - 8-5/8"
2372	2630	258	Sand 400 to 100 11 12 6-3/4"
2185	2372	188	Sand & Shale
Cost No.	1, 3015 t	58467 Re	co sind 31 of Lime, Shale and
0	Agydri	50	Surface Rock
Core No.			overed 60' of Lime and Shale.
Core No	3. 59061 t	TOTAL FEET	sovered 191 of Line.
All mean	urements fr	om derrick f	Fungo Cast. 54 stroke W/14 strokes LOFEE Ministe.  Took' 15, spoke Lond.  Driller  consider 20, of Fine and Spale.  Driller
If gas well,	cu. ft. per 24 ho	irs	Gallons gasoline per 1,000 cu. 1t. of gas
	$\%$ water; and $\frac{1}{2\pi}$		Gravity, B6. #10
			barrels of fluid of which 1:00 - % was oil;%
Tosted 7	MIG. 15	1 De	Put to producing
	• •		
Cable tools were	used from - 12	feet to	feet, and from feet to feet
Retary tools we	an used from	German Prof. to -	feet, and from feet to feet
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Lianum mine	Material Ga		ng ADAPTERS  Depth set
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16-43004-4

U.S. LAND OFFICE MAYS, O

So are on Permit to Prospect ...... Second Number 4-140-1771-9839

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Heaving plug | Material | Materia

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GEOLOGICAL SURVEY DEPARTMENT OF THE INTERIOR UNITED STATES

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	15		175	118.14	10urton			
Siz. casing	Where sot	Namber 13	was of coment	3,94	ethod used	Mud gravity	Ame	ouns of mud used
		I	NUDDING	AND (	EMENTIN	G RECORD		
			· · · · · · · · · · · · · · · · · · ·				-43094-2 v. s.	GOVERNMENT PRINTING OFFICE
1. Sec. 20	! 	<b>€499</b>	! -		IL OR GAS			
kis ith title	of the greatest	importance to l	lave a complete	Mistory	of the well. P	lease state in deta	til the dates	of redrilling, toget
sidetrac	ked" or left in	the well, give it	size and local	ien. I	he well has be	en dynamited, giv	e date, size,	and if any casing v position, and num of pumping or baili
shots.	If plugs or bri	<b>dge</b> s were put i	n to test for wat	er, state	kind of mater	al ased, position,	and results o	of pumping or baili
69कार जन्म	her roser	inch	Make Amo	aar s	ond of succession C	ut and pisHed from	From	Furpos
fter	drillin	g to 597	5' and c	ement	ing 4-1	2" casing	tobus.	I cement p
as f	ound to							sing from
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ibin	g with 5	QQ gallo	ns of re	gular	15% ac1	d. Swabb		dry and r
Mai	sed peri	<b>Crations</b>	with 2.0	000 g	allons t	f ^u regular	15% #6	id. Per-
orat	ed 4-1/2	" casing	from 50	Zyni	OM5854's	*##258781	to 589	4' with 4
nots	per foo	t. Set	bridge pi	lug a	t 5900'	and packe	r at 58	64'. Acid
rro	rations	from 587	8' to 589	94 m	1tH 2:00	o gallons	of reg	ular 15% a
pset	rpacker-	at-5837 kg	w/bridge	olu -	g at 586	out and at	tempted	to acidiz
		from 584		54 1				ular 15% a
orma	tion fai	led to b	reak down	at	4860# px	OH1 ***		packer and
eper	Corated	4-1/2" 0	asing Ire	D	das byles			
	forated Set pa		181ng Ir 1820 Pak	om D <b>50</b> ICN 81		854' with	2 jet	shots per
oot.	Set pa	cker at	5820 F 216	CHRI	<b>31496 94</b>	854' with Franktion	2 jet   5 5847	shots per to 5854'
oot.	Set pa Legggan	cker at	5820r ek pular 15	ickei Lagi	dista 96 d Resec	854 with Friffition wad packs:	2 jet 5847 ' r.and.d	shots per to 5854' rove bridg
oot.	Set pa 1.000,453 to 5939'	cker at	58201 em gular 159 ubing an	CHRI	d. Reserved	854 with Free tion yed packet barrels of	2 jet 5847 ' r.and.d	shots per to 5854' rove bridge
oot.	Set pa L.000,158 to 5939' Parwater	on Missing P Tong to Trong to Oker at	58201 em gular 159 ubing an	CHRI	d. Reserved	t apove dute.	2 jet s 5847 ' r and d	shots per to 5854; rove bridg nd 62 barr
oot.	Set pa 1.000,453 to 5939'	on Wishelf Trons to The t	58201 em gular 159 ubing an	dition of	of the well a pred 44	854 with Free tion yed packet barrels of	2 jet s 5847 ' r and d	shots per to 5854' rove bridg
ate	Set pa L. 000 gas to 5939' Tuwwes	7. 1960 Difficion 200 Trong 200 Difficion 1960	5820r em pular 15; burgine con	Signed dition of the state of t	of the well a poor 1/2	t apove dute.	2 jet s 5847 ' r and d	shots per to 5854' rove bridg nd 62 barr
ate	s can be det  June 2  Fo 2333  FO 2018  Set be	ermined from 7, 1960 on Mishagh on Mishagh on The order of	a all available  Fig. the con  Fig. the con  Fig. 5.4  F	Signer dition	of the well a	Title parties of the	2 jet 5847: 2011 a	shots per to 5854' rove bridg nd 62 barr
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SHOOTING RECORD

PLUCS AND ADAPTERS

Length set .....

# 0

#### (SUBMIT IN TRIPLICATE)

#### UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Indian Agency
Allettee
Lease No. I-149-DED-8839

#### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO ABANDON WELL		
NOTICE OF INTENTION TO PULL OR ALTER CASING	 SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	 SUBSEQUENT REPORT OF ABANDONMENT.	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	 SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	 SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO CHANGE PLANS	 SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO DRILL	 SUBSEQUENT REPORT OF WATER SHUT-OFF	

		40000000000000	December 29	, 19 <b>.61</b>
		4-3	and <b>1820</b> ft. from $\left\{\begin{matrix} \blacksquare \\ \mathbb{W} \end{matrix}\right\}$ line of s	ec. <u>29</u>
NV of Sec. 29 (1/4 Sec. and Sec. No.)	40-S (Twp.)	25-R	(Meridian)	
Aneth		Juan	(Maridian)	
(Field)		nty or Subdivision)	(State or Territory)	

The elevation of the derrick floor above sea level is 4958. ft.

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cement-ing points, and all other important proposed work)

Moved in pulling unit and commenced workover 12-26-61. On 11-20-61, before the workover commenced, the 4-1/2" casing was perforated from 5835' to 5839' with 2 jet shots per foot. Ran tubing with retrievable bridge plug and packer. Set bridge plug at 5865' and packer at 5810'. Treated perforations from 5835' to 5839' and 5847' to 5854' with 500 gallons of NEIST acid and 4000 gallons of emulsified acid. Pulled tubing with packer and bridge plug. Ran 2" plastic lined tubing with Baker Model "N-1" Packer on bottom of tubing and set packer at 5747'. Tested packer with 1000# pressure, packer tested OK. Put inhibited water behind packer. Completed workover and shut well in 12-28-61. This well is scheduled as a water injection well and is now waiting on water injection line.

I understand	d that this plan of work must receive approval in writing b	y the Geological Su	rvey before operatio	ns may be commenced.
Company	TEXACO Inc.	,	**-*	
Address	P. O. Box 810			
****	Parmington, New Mexico	Ву		
		Title	District	Superintendent

yj t

Form 9-331 b (April 1952)

(IIpin 1002)				
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#### (SUBMIT IN TRIPLICATE)

Budget Bureau No. 42-R359.4. Approval expires 12-31-60.	
Indian Agency Rave jo	
***************************************	
Allottee	

Lease No	1-149-IND-883

NOTICE OF INTENTION TO DRILL		SUBSEQUENT	REPORT OF WATER SHU	IT-OFF	
NOTICE OF INTENTION TO CHANGE PL	ANS	SUBSEQUENT	REPORT OF SHOOTING	OR ACIDIZING	1
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·	E ABOVE BY CHECK MA	ARK NATURE OF REPORT	NOTICE, OR OTHER DAT		., 19.
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Wi of Sec. 29 (% Sec. and Sec. No.)	40-8 (Twp.)	25-E	SIM (Meridian)		
			(Meridian)	***	
Aneth (Field)		inty or Subdivision)		Utah State or Territory)	
he elevation of the derrick	floor above sea	level is 4956	K	; indicate mudding	jobs, cem
he elevation of the derrick	floor above sea  DET  Objective sands; shot ing points, and	CAILS OF WOR	ths of proposed casings posed work)		
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he elevation of the derrick tate names of and expected depths to oved in pulling un-1/2" casing from ridge plug at 5865 rom 5835' to 5865' f emulsified acid. an 2" plastic line f tubing and set pested with 1000" pad shut well in 12	floor above sea  DET  objective sands; shorting points, and  it and con  5835 to  3 and paci  with 500  After to  d tubing  backer at  case and  c	FAILS OF WOR!  Wasses, weights, and lengal other important promoned work  5839' with a gallons of gallons of reatment, put haker is 5747'. Put packer tester taken.	(the of proposed casing posed work)  ROVER 12-26  2 jet shots  2 and treat  NKLST acid  Alled packet  fodel N-1 P  1nhibitor  d OK. Com  5 scheduled	-61. Peri per foot. ed perfore and 4000 r and brid acker on b behind pac pleted wor as a wate	foreing Seation galling potto sker ricever in
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Form 9-331 (May 1963)	UN. I STATE		uctions on		au No. 42-R1424.
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/   SUNDR	Y NOTICES AND REPO	ORTS ON WELLS  n or plug back to a different r	eservoir.		
	n for proposals to drill or to deepen be "APPLICATION FOR PERMIT—"	for such proposals.)		ava iqeement n	-
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3. ADDRESS OF OPERATOR .	- Producing Dept.	- ROCKJ MUNB.	9	. WELL NO.	
Box 810 Fa:	rining ton, and in accordance	with any State requirements.	• 1	O. FIELD AND POOL, O	R WILDCAT
See also space 17 below.) At surface	•	•			
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	4958 DF	)		San Juan	litah
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*See Instructions on Reverse Side

*See Instructions on Reverse Side
USGS(3)OGCC(2)Navajo Tribe-HHB-GLE-WLW-Superior
(Cortez)

#### January 25, 1972

Texaco Inc. Box 810 Farminaton, New Mexico 87401

#### Gentlemen:

This letter is to advise you that the Subsequent Report of Abandonment for the following wells is due and has not yet been filed with this office:

Aneth Unit K419 - 19-40S-25E = San Juan County Aneth Unit J319 - 19-40S-25E = San Juan County Aneth Unit K229 - 29-40S-25E = San Juan County Aneth Unit M419 - 19-40S-25E = San Juan County

Rule D-2, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed within thirty (30) days after the plugging of any well has been accomplished.

Your prompt attention to the above is greatly appreciated.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

SCHEREE DEROSE SUPERVISING STENOGRAPHER



PETROLEUM PRODUCTS

February 3, 1972

P. O. Box 2100 Denver, Colorado 80201

ANETH UNIT
PLUGGING AND ABANDONMENT
6.31

State of Utah Oil and Gas Conservation 1588 West North Temple Salt Lake City, Utah 84116

Gentlemen:

Reference is made to your January 25, 1972, letter requesting Subsequent Reports of Abandonment for Aneth Unit Well Nos. K-419, J-319, K-229 and M-419.

It was necessary to revise our procedure and the wells have not been plugged yet. The U.S.G.S. requested an additional plug be placed, therefore, a new Notice of Intent to Abandon will be forthcoming.

Our Farmington District office has been realigned and future correspondence to the undersigned should be directed to P. O. Box 2100, Denver, Colorado 80201, Telephone number 825-7261, Extension 234.

Yours very truly,

G. L. EATON

District Superintendent

PTS:KSR

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Form 9-331 (May 1963)	UNL_D STA		IIT IN TRIPL		No. 42-R1424.
	DEPARTMENT OF TH	E INTERIOR verse	slde)	5. LEASE DESIGNATION A	ND SERIAL NO.
/ <del>-</del>	IDRY NOTICES AND R		10	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
(Do not use this	S form for proposals to drill or to do Use "APPLICATION FOR PERMI"	cover or plug back to a diff	ferent reservoir.	Mayar	<b>.</b>
1.	Use "APPLICATION FOR FERMI	1— 101 Buen proposition		7. UNIT AGREEMENT NAM	I B
OIL GAS WELL	OTHER	<u> </u>	Vil	Uneth Ur	ut
2. NAME OF OPERATOR  TEXACO LIVE	- Prod. Dept-Roo	ky Mtn. il.	5	O. FREE OR DEADE NAME	•
3. ADDRESS OF OPERATO				9. WELL NO.	
BOX 2100	Report location clearly and in accord	do 8020/	ements.•	10. FIELD AND POOL, OR	WILDCAT
See also space 17 be At surface	low.)	•		Uneth Fa	ield
24/0' 4/	No. + 1820' 7	f/W. Lines		11. SEC., T., E., M., OR BI SURVEY OR AREA	_
2/40 //	7 70	/			R-25 E-SIM
14. PERMIT NO.	15. ELEVATIONS (S	Show whether DF, RT, GR, etc.)		12. COUNTY OR PARISH	18. STATE
				Jan Juan	man
16.	Check Appropriate Box T	o Indicate Nature of I		ther Uata ent report of:	
	NOTICE OF INTENTION TO:			REPAIRING W	MILE.
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- Variance	11150 sel Cal	Course Ex	inside co	a. to 280	o Perd.
and the	it shot @ 16	xearing of	0 411 500	1 cx low	ins al
ezg. 10/ 4	Jec puris ( 180	CIA COLLEGE		1.	
inside &	g to 1454, 4	fter cog is	cut of p	eacl 10 sx	ex peng
@ surface	covering both	prod. asg.	& grod - se	NO ROVED BY	mulus DIVISION OF
Set dry h	ile marker + 1	Elean up lo	reation (	OÍL & GÁS CON	SERVATION
/		V	Ĺ	DATE 2-25-	77
				y Of Leigh	28
18. I hereby certify th	at the foregoing is true and correct	De to el	A Sugar to	IN DATE 2-	14-72
SIGNED	Staton	TITLE	Lagent Chas	DATE	
(This space for Fe	ederal or State office use)			77 A 1989	
APPROVED BY CONDITIONS OF	APPROVAL, IF ANY:	TITLE		DATE	
ſ	<b>*</b> ^		una Sida		- 1
565/3)0400	(2) Novajo Tribe	ee instructions on never $-NNB-GN$	E WLW-	-Sapenor C	Wells.
rum Cla		<del>-</del> -		corte,	
			+	7	

### STATES SUBMIT IN TRA (Other Instruction THE INTERIOR verse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

DATE ....

SUNDRY NOTICES AND REPORTS ON WELLS  (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)  7. UNIT AGREEMENT NAME  Aneth Unit  Aneth Unit		GEOLOGICAL SURVEY	Of verse side)	I-149-IND-	8834
Che not use this form for proposals to drill or but deepen or plug back to a different reservoir.    Mark			ON WELLS	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
TO SAME OF OPPRATOR  NAME OF OPPRATOR  TEXACO, INC.  3. ADDRESS OF OPPRATOR  P. O. BOX EE, COTTEZ, Colorado 81321  4. Deliverior of the property of the proper	(Do not use this form for propo	sals to drill or to deepen or plug by	nck to a different reservoir.	Navaio	<b>)</b>
Aneth Unit  ***XALE** OF OFFERATION** TEXACO, INC.  3. AND AREA OF OFFERATION** P. O. BOX EE, COrtez, Colorado 81321  4. Describes of a first (began location density and in accordance with any State requirements.**  ***See also space 17 below.**  2140 ft. from NL and 1820 ft. from WL  See also space 17 below.**  15. EMENATOR (Show whether OF, NY, OL, etc.)  4956 DF  16. Check Appropriate Box To Indicate Notice of Notice, Report, or Other Data  ***Source OF Intention to:  ***THET WATER RILLED FT.**  ***ANDIONOPS OF INTENTION TO:  ***THET WATER RILLED FT.**  ***ANDIO		ATTON FOR PERMIT	· · · · · · · · · · · · · · · · · · ·	1	
TEXACO, INC.  3. ANDRESS OF OFFRICION TEXACO, INC.  4. LORATRIN DE WILL (Appreh location clearly and in accordance with any State requirements.*  See also squee 17 below.)  2140 ft. from NL and 1820 ft. from WL A See also squee 17 below.)  15. Elevations (Show whether DF, RI. Ga. etc.)  4956 DF  16. Check Appropriate Box To Indicate Noture of Notice, Report, or Other Data  NOTICE OF INTERVIOR TO:  NOTICE OF INTERVIOR TO:  NUTLIFIES CONFIDENT  NUT	OIL GAS GAS	Water Injector		Aneth Un	iit
A ADDRESS OF DEFINION P. O. BOX EE, Cortez, Colorado 81321  4. Definition of while (Purport Decision clearly and in recordance with any State requirements.*)  4. Decision of the purpose	2. NAME OF OPERATOR			8. FARM OR LEASE NAM	E
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ABANDON'S ALDIZER  REPAR WELL  (Other)  17. DESCRIEF PROPOSED OF ACTORIZES (Clearly water all) pertinent details, and give pertinent dates, including estimated date of starting any proposed in work.)*  TEXACO, INC. proposes to plug and abandon this well because it is of no economic benefit for production or injection in the Desert Creek formation. This well has been temporarily abandoned since December, 1964.  The plug and abandon procedure will be as follows:  1) Perforate with 4-way shot at 2960'  2) Spot 30 sx cement plug from PBTD to above top perforations at 5835'. Fill hole with mud and displace 10 sx into formation.  3) Spot 30 sx cement at 2950' and above. Bradenhead squeeze 15 sx into perfs. Fill hole with mud.  4) Spot 10 sx plug at surface and 15 sx plug between 8 5/8" and 4 %" casing strings.  5) Erect dry hole marker and clean and seed location.  APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  DATE: Description of actions of multiple completion on well (Other)  (Other)  (Other)  (Other)  (Other)  (Other)  (Other)  (Other)  (Other)  (Nork: Report results of multiple completion on Well Country and Extending storing and give pertinent dates, and give pertine	TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF		<u> </u>
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(Other)  (Norte: Report results of multiple completion on Well Completion or Recompletion of Recompletion of Recompletion and Easy forms.)  (Norte: Report results of multiple completion on Well Completion or Recompletion Reports and Log forms.)  (Norte: Report results of multiple completion of Completion of Recompletion Reports and Log forms.)  (Norte: Report results of multiple completion forms.)  (Norte: Report results of multiple completion forms.)  (Norte: Report results of multiple completion of Completion forms.)  (Norte: Report results of multiple completion forms.)  (Norte: Report and series and serie	[ <del></del> ]	ABANDOS		ABANDUNMEN	
17. DESIGNED PROPOSED ON COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and somes pertinent to this work.)  TEXACO, INC. proposes to plug and abandon this well because it is of no economic benefit for production or injection in the Desert Creek formation. This well has been temporarily abandoned since December, 1964.  The plug and abandon procedure will be as follows:  1) Perforate with 4-way shot at 2960'  2) Spot 30 sx cement plug from PBTD to above top perforations at 5835'. Fill hole with mud and displace 10 sx into formation.  3) Spot 30 sx cement at 2950' and above. Bradenhead squeeze 15 sx into perfs. Fill hole with mud.  4) Spot 10 sx plug at surface and 15 sx plug between 8 5/8" and 4 5" casing strings.  5) Erect dry hole marker and clean and seed location.  APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  DATE: 12. 1978  BY: A A A A ST A ST A ST A ST A ST A ST A	Again years	CHANGE PLANS	(Norge Report results	of multiple completion of	on Well
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OIL, GAS, AND MINING  DATE: Dec 12, 1978  BY: A Augustian Street and correct  18. I hereby certify that the foregoing is true and correct					
DATE: Dec 12, 1978  BY: A Musicullar structure of the foregoing is true and correct				NOV	24 <b>19</b> 78
BY: Ph. Musical Lands	Λ				
18. I horeby cartify that the foregoing is true and correct	DATE: Uses	The state of the s			٠. ;
18. I horeby cartify that the foregoing is true and correct	RY. Ph.	Ans call			* 2
SIGNED Alvin R. Ward Times TITLE Field Foreman DATE 11-20-78	18 I harehy certify that the foregoing	is true and correct		271,	
	SIGNED alver R. Marx	/ Times TITLE Fi	eld Foreman	DATE //-20	78

*See Instructions on Reverse Side

(This space for Federal or State office use)

Form 9–331 Dec. 1973		Approved. et Bureau No. 42–R1424
UNITED STATES	5. LEASE	7. Darcad 110. 42-111424
DEPARTMENT OF THE INTERIOR	I-149-IND-	.RR30
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE	
	Navajo	<u> </u>
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NA	
(Do not use this form for proposals to drill or to deepen or plug back to a different		Unit
reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAM	ΙE
1. oil gas other to the total		
water injection	9. WELL NO.	
2. NAME OF OPERATOR	K229	
Texaco Inc. 3. ADDRESS OF OPERATOR	10. FIELD OR WILDCAT N	AME
	Aneth 11. SEC., T., R., M., OR B	I K AND SUDVEY OD
P.O. Box EE Cortez, Colo. 81321 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA	LK. AND SURVET OR
helow )	Sec 29 - T	40S - R25E
AT SURFACE: 2140'FNL & 1820'FWL	12. COUNTY OR PARISH	13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan	Utah
	14. API NO.	-
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,		
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW	
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	4958	'DF'
TEST WATER SHUT-OFF		
FRACTURE TREAT		
SHOOT OR ACIDIZE	(NOTE: Dans A see March	
PULL OR ALTER CASING	(NOTE: Report results of mu change on Form 9–3	
MULTIPLE COMPLETE		
CHANGE ZONES		
(other) Extend SI Status		
<ol> <li>DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is di</li> </ol>	e all pertinent details, and rectionally drilled give sub-	give pertinent dates, surface locations and
measured and true vertical depths for all markers and zones pertinen	t to this work.)*	
3/7/83 - Texaco INc. requests your ap	proval to exten	d the shut-in
status on the above mentioned well so		
of returning the well to WI status ca		
beneficial water injection well now t		
was drilled in August of 1981.	mac initial prod	ucer ozzy
was diffied in adjust of 1901.		
	h _a	
Subsurface Safety Valve: Manu. and Type	Set	@ Ft.
18. I hereby certify that the foregoing is true and correct		
SIGNED THE Field Supt	3_16_	คร
SIGNED TITLE FIELD SUPL	• DATE 3-10-	(1,)

BLM (4) UOGCC (3) Navajo Tribe-Superior Oil-JNH-CDF-ARM

APPROVED BY _______CONDITIONS OF APPROVAL, IF ANY:

(This space for Federal or State office use)

____ DATE __

# STATE OF UTAH DIVISION OF OIL, GAS, AND MINING ROOM 4241 STATE OFFICE BUILDING SALT LAKE CITY, UTAH 84114 (801) 533-5771

(RULE 1-5)

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF Texaco Inc.	,
ADDRESS P. O. BOX EE	CAUSE NO.
Cortez. Colorado ZIP 81321	ENHANCED RECOVERY INJ. WELL DISPOSAL WELL
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OF	
SEC. 29 TWP. 405 RANGE 25E	
San Juan COUNTY UTAN	

#### **APPLICATION**

Comes new the applicant and shows the Division the following:

1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal

Aneth Unit	Well No. /<22	29	Rold An	eth	County San Jua	
ecation of Enhanced Recovery	1 44 . 1	29	<u> </u>	405		
low Well To So Drilled Yes   No XX	Old Well To Be	Converted		Contra Tant	Mo Date 12-26-6	
epth-Bese Lewest Known 13/		Zone Contain Water Within	N AMILO YES		State What	·······
ocation of Aneth Unit njection Source(s) Wells &	Producing San Juan	Goole		esert C	Oil & Ga reek & Ismay   5600'	1 S
Poologic Name of Parado	OX: Decat Com	/ Dopth	of Injection			
. Top of the Porforated Interval:	58351 b. Sano al	Fresh Water	1210' c. In		knoss (a minus b)	
the intervening thickness sufficiently the sufficient that the sufficient of the suf	ent to show fresh water a	will be greter	led		452	<u> </u>
ithology of Intervening Zones S	andstone, li	meston	e & anhy	drite v	v/intermittent	
	<b>Shal</b> o	laver	_			•
jection Rates and Pressures		LAVEL	<u>s</u>			
jection Rates and Pressures	Maximum		S	2,000		
	Mazimum			2,000	8/0 PSI	<del>,</del>
	Mazimum			2,000	8/0 PSI	
he Names and Addresses of These	Maximum			2,000	8/0 PSI	
	Maximum			2,000	8/0 PSI	
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he Names and Addresses of These The Navajo T Box 146 Window Rock,	Maximum To Whom Copies of This ribe	Application	and Attechment	2,000 2,500 • Neve Scen S	0/D PSI	
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The Navajo T Box 146 Window Rock,  the of Gold of Solution of the second	Maximum  To Whom Copies of This ribe  Arizona 865	Application  15	Thu R	2,000 2,500 Nove Boon S	Field  Mary	Sur
The Navajo T Box 146 Window Rock,  the of Local Solution of Management of Management of Management of the undersigned authors to make the above report	Maximum	Application  15  notify appearance above instruction of the fee	Thu R.	2,000 2,500 Neve Scen S	Field  Mary	Sur
The Navajo T Box 146 Window Rock,  the of Lolar Long Before me, the undersigned automate me to be the person whose freezed to make the above report	Maximum	Application  15  notify appearance above instruction of the fee	Thu R.	2,000 2,500 Neve Scen S	Field  Mary	Sur
The Navajo T Box 146 Window Rock,  the of Solar	Maximum	Application  15  notify appearance above instruction of the fee	Thu R	2,000 2,500 Neve Scen S	Field  Mary	Sur
The Navajo T Box 146 Window Rock,  the of Local Downty of Montage the undersigned authors to make the person whose freeded to make the above report  Suscribed and sworn to before the second to make the deveroes the second to make the above report	Maximum	Application  15  notify appearance above instruction of the factory of the factor	Thu R.	2,000 2,500 Neve Scen S	Field  Mary	Sur
The Navajo T Box 146 Window Rock,  the of Solar	Maximum	Application  15  notify appearance above instruction of the factory of the factor	Thu R.	2,000 2,500 4 Here Boon Se  May	Field  Mary	Sur

- 1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
  - 2. Attach qualitative and quantitative analysis of representative sample of water to be injected.
- 3. Attach plat shewing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, tegether and with name of operator.
- 4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
  - 5. Attach Electric or Radioactivity Log of Subject well (if released).
- 6. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of coment used measured or calculated tops of coment surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bettom of injection interval.
- 7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
- 8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
- 9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
- 10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application will be approved administratively.
- 11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
- 12. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
  - 13. If there is less intervening thickness required by Rule I-5 (b) 4 attach swern evidence and data.

#### CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13音"	115'	175	Surface	Comont Circulated
Intermediate	85"	1504'	1000	Surface	Coment Circulated
Production	45"	5974'	250	4560'	Calculated
Tubing	None	None	Nem	e - Type - Depth e	f Tubing Packer
Total Depth Ge 5975'	ologic Name - In Desart C	j. Zone Dept Veek	h - Top of Inj. In 5835'		- Base of Inj. Interval

	SUBFACE CASING (15'	V 1504 / TI BING PACKER	PRODUCTION CASING 5974'
SKETCH SUBSURFACE FACILITY			
SKETCH			

1621	DATA SY	PRODUCING	PORMATION	
1			2	:

	TOTAL TEST BATA BY	PRODUCING FORMATION 2	3
RMATION	Desert Creek	Osert Creek	
ACING & SPACING IDER NO.	40 acre	40 acre	
CLASSIFICATION (OII; Gee; Dry; Inj. Well)	Oil	Inj	<del></del>
PERFORATED	5908-12,5847-54		
	5878-94		
MTERVALS		ļ	
ACIDIZED?	Acidized w/6500	Acidized 5835-54 w/500 and NELSTaid	
	acid	w/500 gal NELSTacid and 4000 gal Emulsified acid	
PRACTURE TREATEUP	No	No	
ITIAL TEST DATA			
Off. bbl./day	6-12-60	Shut in	
Off Growthy	<u>84</u> 41	awaiting inj. line	
Gas. Co. Ft./day	NA ·	0	
Gas-Oli Ratio Cu. Pt./861.	NA		
Water-Shit./day	////		
Pumping or Flowing	Pumping		
CHOKE SIZE	Pumping, NA		<del>*************************************</del>
ROW TURNS PRESSURE	NA		
A creard of the formation	ns drilled through, and per (use revene s	Hoost remarks are presented	on the reverse.
e profesional Salas Bat		o that this well report is true	
ecding the the research of this	office and to the best of m	y knowledge and belief.	.,

**DEPARTMENT OF NATURAL RESOURCES AND ENERGY** DIVISION OF OIL, GAS, AND MINING Room 4241 State Office Building Salt Lake City, Utoh 84114

(To be filed within 30 days after drilling is completed) I-149-IND-8839-A

county San sec 29 405 mon 25E COMPANY OPERATING _ Texaco Inc Rox EE Cortez STATE 20 ______ 81321 PARM NAME Aneth Unit WELL NO. K229 DORLING STARTED 3-11 1960 DERLING PROSHED 4-5 1960 BATE OF FIRST PRODUCTION 6-12-60 COMPLETED 6-12-60 WELL LOCATED SW & SE & NW & 3140 FT. FROM SI OF X SEC. & 1820 FT. FROM WIL OF X SEC. MEVATION DELENCE FLOOR 4958' GROUND 4946

Desart Cocole Single Zene Multiple Zone DCATION EXCEPTION

OR OF GAS ZONES To from To. Desert Creek 5808 5942 CASING & CEMENT

**Cooling Set** Cog. Tost Coment Wet Grade Foot Fillup Top NA Surface 115 NA 175 NA 800 Surface 1504 1000 5914 1000 250 4560

5975 No tubing or Packer - Well currently Shot in

1.0

544 AF Caloreda Field Supt.

County of Montezume 16th on a December 10 83 125 Jac D. Roy lat 728 N. Beech Cortez Co. 81321 Subscribed and swarn before me this _ My Commission expires

		. · • • •	+ 1 Court				<u></u>
+	6)00 jay 100 100 100 100 100 100	100	<u>Т-на - 24 Е</u> San Juan, Cou	Inty Utah		JAUS-R25E San Juan Com	nzy, Wah
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L'INSTRUCTIONS - CAN	CELS LETTER:SI OFSIGNED BY
EXACO D PERMANENT	□ ROUTINE □ TEMPORARY
	(LOCATION) (DATE)
	•
	Subject: Water analysis from
	Nava Jo Flaviter
X 1. 11 \ 11A15 :	
Aneth Unit HALS	
Location- SEYA - SEYA SOCK	7405 R3A E
Samole Date - 1-17-59	
Capth! Nounto Acinter	<del>`</del>
Tano- 67° F	
· —	-
Ph - 8. 7	
TOTAL DISSOLVED Solicle - 3	2573 opin
	72 - 122
510, -160pm	02-130 ppm
Cat - 700m	CO2 - 156 ppm
الم الما الما الما الما الما الما الما	
Mg - 28 Pam.	50, 599 ppm
Nd+ - 76 ppm	C1 757 00m
100	
Anoth Unit GAZZ	•
Location- SW/4-SE1/4 Se	- 22 TAOS 034E
LOCATION DO 14 SE A SE	(0,0)
Sample Date . 1-18-59	
Deoth- Navajo Aguiter	•
The contract of the contract o	
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70 tal Discourse Solido - 28	223 20
70 701 U1500100 501100 - 28	· · · · · · · · · · · · · · · · · · ·
5,0-1700m C	03-92500m
C + ( )	2 - 0.3
- 10 - 10 bbw H	03 - 419 ppm
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" Note: those winters a	
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If letter requires reply prepare in triplicate, for-	P.O. 60x 2000
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### NL Treating Chemicals/NL Industries, Inc.

TEXACO, TUCORPORATED  ANETH  SAN JUAN  INTECTION WATER  SET STATE 1992  TOTAL 1992  TABLET STATES ANALYSIS PATTERN  MATER ANAL	DATE  SAFREL  STATE  UTAH  CILL MICETA
ANETH SAN JUAN  ANETH STEED WATER SOURCE FRANKFOWN  ANETH STEED WATER SOURCE FRANKFOWN  STEED AND THE STEED WATER ANALYSIS PATTERN  MATER	5 AFREL STATE UTAH
ANETH SANTHER SOLECTION WATER  ANETH STORM WATER SOLECTION WATER  DESCRIPTION WATER SOLECTION WATER SOLECTION SOLECTION WATER SOLECTION WATER SOLECTION WATER ANALYSIS PATTERN  MATERIANALYSIS  MATERIANALYSIS	UTAH
ANSTH	
ANETH   INTECTION WATER   INTECTION   INTERIOR   INTECTION   INT	2 SALT ALTE-
	2 SALT ALTE-
	2 5447 7478-
######################################	7 SALT 0278-
100 Ca   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   1	, ::c
100 Ca   100 Mg   1	::c
Co	
Dissolved Salids	
O.1 Fe	<u> </u>
DISSOLVED SOLIDS   DISSOLVED GASES	
DISSOLVED SOLIDS   DISSOLVED GASES	30
DISSOLVED SOLIDS   DISSOLVED GASES	
TATIONS  Total Hardness Total Hardness Total Hardness Talcium, Ca  Carbon Dioxide, CO2  Magnesium, Mg  124.0  1519.0  Total Ferrum, Far  Total Hardness Total Dioxide, CO2  Total Hardness Total Hardness Total Dioxide, CO2  Total Hardness Total Hardness Total Dioxide, CO2  Total Hardness Total Hardness Total Hardness Total Hardness Total Hardness Total Hardness Total Dioxide, CO2  Total Hardness	<u> </u>
Total Hordness   392.0   Carbon Dioxide, CO2   15   Calcium, Ca   268.0   5360.0   Oxygen, O2   Carbon Dioxide, CO2   15   Carbon Dioxide, CO2   Carbon Diox	
Total Hardness   392.0   Carbon Dioxide, CO2   15   Calcium, Ca   268.0   5360.0   Oxygen, O2   Carbon Dioxide, CO2   15   Carbon Dioxide, CO2   Carbon Diox	337.5 mg/
Magnesium, Mg	185.0 mg/
Ton (Total) Ferrical   0.5   10.0   PHYSICAL PROPERTIES	
Barrum, Barr	
1035.1   23867.3 pH   (Colc.)   1035.1   23867.3 pH   (Colc.)   En (Redox Potential)	
Eh (Redox Potential)  211. DNS  Clear of Gravity  47.00.0 Turbiany, UTU Units	6.65
-Chioride, C17 1360.3 1360.3 49100.0 Turbicity, UTU Units	N.D. MV
	N.5.
- Sulfare#SO4" <del></del>	N.D.
	61385.3 mg 1
	+ c.39 + 1.32
	306.6 Me/
	306.8 71/
	24.5 re/
Max. BaSO. Passible (calc.)	1.0 mg/
Residual Hydrocarbons	N.D. ppm
SUSPENDED SOLIDS (QUALITATIVE)	
	d ma/1 are ca
FREMARKS AND RECOMMENDATIONS:	-
I LIATER SHOULD TENDENCY TRUES SCALTIG PRIMARILY respectively. Whe	
0.4. 0 0.4.00 1.4	•
HARK BROTHERS 12 CARMINGTON N.M. 505-325-5701	B-0

### CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

County: Gm Jun T 405 R 25B Sec. 29 API# 43-03/-163  New Well Conversion Disposal Well Enhanced Recovery Well L  YES NO  Plat including Surface Owners. Leaseholders, and wells of available record  Schematic Diagram  Fracture Information
UIC Forms Completed  Plat including Surface Owners. Leaseholders, and wells of available record  Schematic Diagram  Fracture Information
UIC Forms Completed  Plat including Surface Owners. Leaseholders, and wells of available record  Schematic Diagram  Fracture Information
Plat including Surface Owners. Leaseholders, and wells of available record  Schematic Diagram  Fracture Information
Schematic Diagram  Fracture Information
Fracture Information
Pressure and Rate Control
Adequate Seologic Information
Fluid Source Dan Chuck-In
Analysis of Injection Fluid Yes $\angle$ No TDS $8138$
Analysis of Water in Formation Yes $\frac{1}{2}$ No $\frac{1}{2}$ Tos $\frac{8!389}{3}$
Known USDW in area Depth 13/0
Number of wells in area of review 2 Prod. P&A 2
Water O Inj. O
Aquifer Exemption Yes NA
: Mechanical Integrity Test Yes No
DateType
Comments: 70 C 4560
•
$\mathcal{O}_{1}$
Reviewed by:

149 - IND - 8834

5. LEASE

I -

### UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Nava 10
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different	Navajo 7. UNIT AGREEMENT NAME Aneth Unit
reservoir, Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME Unit
1. oil gas other Water Injection	9. WELL NO.
2. NAME OF OPERATOR Texaco Inc.	K229  10. FIELD OR WILDCAT NAME
3. ADDRESS OF OPERATOR P.O. Box EE Cortez, Colorado 81321	Aneth
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
below.) AT SURFACE: 2140'FNL & 1820'FWL	Sec. 29 - T40S - R25E  12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL: AT TOTAL DEPTH:	San Juan Utah
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	14. API NO.
REPORT, OR OTHER DATA  REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:	15. ELEVATIONS (SHOW DF, KDB, AND WD) 4958 DF
TEST WATER SHUT-OFF	
FRACTURE TREAT	
REPAIR WELL	(NOTE: Report results of multiple completion or zone change on Form 9-330.)
MULTIPLE COMPLETE	
CHANGE ZONES	
(other) Temp. Abandon	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinen 9/24/84 Texaco Inc. proposes to temp well. K229 has no economic benefit for the Desert Creek formation at present since December 1964. The temporary pl be as follows:	rectionally drilled, give subsurface locations and to this work.)*  corarily plug and abondon this or production or injection in this well has been shut-in
<ol> <li>Set a CIBP at 5800'KB.</li> <li>Fill the well bore with condit</li> <li>Shut the well in at surface.</li> </ol>	ioned, non-corrosive fluid.
4. Erest marker and story leads	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
SIGNED file in K. Mary TITLE Field Supt	DATE
(This space for Federal or State office	ce use)
APPROVED BYTITLE CONDITIONS OF APPROVAL, IF ANY:	DATE
BLM (4) UOGCC (3) Navajo Tribe-S	Berior Oil-INHERIH-ARM

*See Instructions on Reverse Side I., GAS, AND MINING DATE: 10/12/8

F UTAH DIVISION OF

Dec. 1973

#### Form 9-331 Form Approved. Budget Bureau No. 42-R1424 UNITED STATES Sirous M Siri H Siri 5. LEASE I-149-IND-8839A DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY** 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo B .4 91d: 7. UNIT AGREEMENT NAME SUNDRY NOTICES AND REPORTS ON WELLS Aneth Unit 🖫 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir, Use Form 9-331-C for such proposals.) 8. FARM OR LEASE NAME 90.7 Unit さら 変異 gas well 100 TEST TO THE TE 1000 1000 1000 1000 1000 other Water Injection well 9. WELL NO. K229 2. NAME OF OPERATOR Texaco Inc. 10. FIELD OR WILDCAT NAME 3.7 Aneth Field-3. ADDRESS OF OPERATOR 11. SEC., T., R., M. OR BLK. AND SURVEY OR P.O. Box EE, Cortez, CO. 81321 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 Sec. 29, T40S, R25E below.) 2140' FNL & 1820' FWL 12. COUNTY OR PARISH 13. STATE 3 AT SURFACE: AT TOP PROD. INTERVAL: San Juan 2 5 5 Utah AT TOTAL DEPTH: 43-037-16334 10 E 14. API NO. 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 15. ELEVATIONS (SHOW DF, KDB, AND WD) 4958 DF (a) REQUEST FOR APPROVAL TO: SUBSECUENT REPORT OF: INCEST LOWER LANGE TO THE STATE OF THE STATE s to got of a **TEST WATER SHUT-OFF** 9. FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (NOTE: Report results of multiple completion or zone plette population less plette population of the population of the plette population of the plette plette population of the plette population of the plette population of the plette plet change on Form 9-330.) **PULL OR ALTER CASING** MULTIPLE COMPLETE a biru stob bon sat **CHANGE ZONES** 【】 ABANDON* and Elfat (other) Temporary 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* 열현 항 등 유민이를 opuec sest sest Texaco Inc. proposes to temporarily plug & abandon this well. K229 has been determined to have no current economic benefit for injection or production, however, plans are being evaluated for enhanced recovery at Aneth and Texaco wishes to retain the wellbore for possible future use. The procedure is as follows: ី 🥞 🖟 Set CIBP @ 5800' KB. Cap with cement. 2.) Fill wellbore with conditioned non-corrosive fluid. RECEIVED 3.) Shut-in well at surface. FIGURE 1

		AUG 02 1986 3 8 8 8 8 8 8 8	
Subsurface Safety Valve: Manu.	and Type		t
18. I hereby certify that the fore	going is true and correct	DIVISION OF GREET STATE TO SERVICE STATE	_
	(This space for Federal or Sta	ate office use)	•
APPROVED BY		DATE 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_
BLM (4) - UOGC	C (3) - Navajo Tribe	e - Mobil Oil - AJS-JNH-ARME	

Federal approval of this action is required before con

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operations.

ACCEPTED BY THE STATE OF UTAH DIVISION OF GAS, AND MINING

Form 3160-5	UNI STATES	SUBMIT IN TRIPITO	TE• E	xpires August	
	RTMEN THE IN			-149-IND	` <b>`</b>
•	REAU OF LAND MANAG			INDIAN, ALLOTTEE	
SUNDRY No (Do not use this form for pi Use "APP	OTICES AND REPO	ORTS ON WELLS or plug back to a different reservoir. or such proposals.)		avajo	
i.				eth Unit	u B
OIL GAS OTHE	Water Injec	ction	8. FAI	M OR LEASE NAM	<u> </u>
2. NAME OF OPERATOR  Texaco Inc.		BALL TO STATE OF THE STATE OF T	i.	Unit	
3. ADDRESS OF OPERATOR		THE CASE	9. WE	LL NO.	
P. O. Box E	E	FFR 1.7-1987	10. 71	K229	WILDCAT
4. LOCATION OF WELL (Report location See also space 17 below.)	ion clearly and in accordance	wirdien ole fe reditenden.		eth Fiel	
At surface		<b>DIVISION OF</b>	11. 8	C., T., R., M., OR B	LE. AND
2140' FNL &	1820' FWL	OIL. GAS & MINING	- 1	. 29, т4	
14. PERMIT NO.	15. ELEVATIONS (Show w	whether pf, RT, GR, etc.)		DUNTY OR PARISE	į į
	4958' DF		Sar	<u>Juan</u>	Utah
16. Check	Appropriate Box To Inc	dicate Nature of Notice, Report,	or Other D	)ata	
	INTENTION TO:		ER THEUDERED		
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF		REPAIRING W	FELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT		ALTERING CA	<del></del>
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZIN	•	ABANDON MEI	" ^T
REPAIR WELL	CHANGE PLANS	(Other)(Norm: Report_	results of mul	tiple completion eport and Log for	on Well
(Other) Temporary 7  17. DESCRIBE PROPUSED OR COMPLETE proposed work. If well is d nent to this work.) •		Il pertinent details, and give pertinent reace locations and measured and true	dates Includi	ne estimated dat	e of starting any
1/30/87	•		;		
K229. K229 for water	9 has been dete injection or to for enhanced re	emporarily plug & all rmined to have no con return to producing covery at the Aneth le use. The procedu	irrent ( g statu: Unit w	economic s. Due t e wish to	co future retain
	2) Fill	CIBP @ 5800' KB. Cap wellbore w/condition in well at surface	oned no	cement. n-corrosi	ve fluid
		* Accepted  APPROVE  OF UTA  OIL, GAS  DATE: Z  BY: Z	H DIVIS S. AND VIII	ION OF MINING	
	•	* Subject y	o Am A	nnual rel	/12W.
18. I hereby certify that, the foreg	oing in true add correct	ть Area Superintend	ent	DATE _2/6	/87
(This space for Federal or Sta	ate office use)				
		TLE		DATE	
CONDITIONS OF APPROVAL	, IF ANY:		73177		v
вьм (3)-40	GCC (3) Navajo	Tribe - Mobil Oil -	оип –	THM - WHI	ix ·

*See Instructions on Reverse Side

Form 3160-5 (November 1983) (Formerly 9-331)

### UNITE STATES SUBMIT IN TRIPLIC (Other Instructions of THE INTERIOR verse aide)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.

BUREA	U OF LAND MANAGEMEN	r	I-149-IND	0-8839
	ICES AND REPORTS		6. IF INDIAN, ALLOTTE	ER OR TRIBE NAME
	mais to drill or to deepen or plug ATION FOR PERMIT—" for such p		Navajo	
i.	J	25001	7. UNIT AGREEMENT N	
WELL WELL OTHER	Water Injection 🖴	DEC 21 1987	Aneth Unit	
2. NAME OF OPERATOR	2) 565 1006	<b>5.1</b>	8. FARM OR LEASE NA	IME .
Texaco Inc. (30	3) 565-1296	DIVISION OF	9. WBLL NO.	···
D.O. Door DE Co.	GO 01331	OIL, GAS & MINING	K-229	
P.O. BOX EE, CO.  4. LOCATION OF WELL (Report location consequence 17 below.)	rtez, CU. 81321	State requirements •	10. FIELD AND POOL,	OF WITDCAM
See also space 17 below.) At surface	really and in accordance with any	board requirements.	Aneth	OR WILDCE!
2140' FNL and 1	820 FWI			BLE. AND
2140 IND and 1	OZO FWL		11. SEC., T., R., M., OR SURVEY OR ARE	A
			Sec. 29, T4	40S. R25E
14. PERMIT NO.	15. BLEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OR PARIS	
	4958' DF		San Juan	Utah
16. Charl A.				1 o can
Check Ap	ppropriate Box To Indicate N	lature of Notice, Report, or	Other Data	
NOTICE OF INTEN	TION TO:	80381	EQUBNT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING	WBLL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTUBE TREATMENT	ALTERING (	CABING
SHOOT OR ACIDIZE	ABANDON* X	SHOOTING OR ACIDIZING	ABANDONME	NT*
REPAIR WELL	CHANGE PLANS	(Other)		
(Other)	<u> </u>	Completion or Recou	its of multiple completion upletion Report and Log fo	on Well
been shut in sing to injection. our District of	sing to plug and a ce 1964 and has a A recommendation : fice for approval ure for your appro	n extended payout for Abandonment h . Texaco submits	to return thas been submi	ne well itted to
<ol> <li>TIH w/tbg of</li> <li>Load hole w,</li> <li>Perf squeeze</li> <li>Cement each perforation</li> <li>Erect dry he</li> </ol>	BOP.  pen ended. Spot ( /9.2 ppg mud.  e hole at 3005',  squeeze hole w/40  leaving remainder  ole marker and res  tween July 1 and 5	1554', and 100'. 0 sx cmt. Squeez 1 of cement insidestore the location	se 20 sx into le the 4½" cas	sing.
18. I hereby certify that the foregoing is		OI OI DA' BY:	FUTAH DIVISI IL, GAS, AND I TE:	ION OF MINING
SIGNED Clan 4	MULL_TITLE ARI	EA SUPERINTENDENT	DATE 12/1	L8/87
(This space for Federal or State offic	ce use)			
APPROVED BY			T) A (T) Th	
CONDITIONS OF APPROVAL, IF A	TITLE		DATE	

BLM (3),  $UOG\dot{q}C$  (3), Navajo Tribe-Mobil Oil-LAA-AAK

*See Instructions on Reverse Side

Form 3160-5 (November 1983) (Formerly 9-331) DEPARTA	UNIT STATES MENT THE INTER	SUBMIT IN TRIPLIC (Other Instructions 6 OR rerse alde)	Form approved. Budget Bureau No. 1004-0135 Expires August 31, 1985 5. LEASE DESIGNATION AND ASSIAL NO.
<del></del>	U OF LAND MANAGEMENT CES AND REPORTS ( The to delle of to desper or pro-	ON WELLS	I-149-IND-8839  6. IF INDIAN, ACCOTTER OR TRIBE HAME
1.	Injection Well	AUG 25 1988	Navajo 7. UNIT AGREEMENT NAME Aneth Unit 8. FARN OR LEASE NAME
TEXACO Inc. (30	3) 565-8401	DIVISION OF	9. WELL NO.
P. O. Box EE, Cortez,  1. Location of Well (Report location closes also space 17 below.) At surface	CO 81321 Refly and in accordance with any	OIL, GAS & MINING State requirements.	. K-229 10. FIELD AND FOOL, OR WILDCAT Aneth
2140' FNL and 1820' FW  14. PERMIT NO.  43 - 037-16334	L Sec. 29 16. ELEVATIONS (Show whether be	· · · · · · · · · · · · · · · · · · ·	Sec. 29, T40S, R25E  12. COUNTY OR PARISH 18. STATE  San Juan Utah
16. Check App	propriate Box To Indicate N	ature of Notice, Report, o	
### SHOOT OR ACIDIZE  REPAIR WELL  (Other)  17. DESCRIBE PROPOSED OR COMPLETED OPER. Proposed work. If well is direction nent to this work.)  The subject well was completed on the subject well was completed by the subject well was completed by the subject well was completed on the subject well was completed by the subject well as direction nent to be subject to subject to subject well as direction nent to be subject to subject well as direction nent to be subject well as direction nent to this work.)  1) MIRUSU - NUBOP. TILL STANDARD STAN	TANGE PLANS  ATIONS (Clearly state all pertinent ally drilled, give subsurface local mpleted plugged and H w/tubing to 5737'. turns - no progress. and set at 5656'. Centud.  Om 4837' to 4513'. eeze holes at 3005', below 217'. Notify iner. Could not go	TOOH. TIH with tooh.  TOOH.	EEPAIRING WELL  ALTERING CASING ABANDONMENT*  Wilts of multiple completion on Well supjetion Report and Log form.)  Tes. Including retimated date of starting any tical depths for all markers and sones perti-  18, 1988 as follows:  Tubing and bit. Drill to  Lass 'B' cement. Load hole  100'. Casing parted +217'.
950 PSI. 7) Cut of casing head.	Set P&A marker. R	DMOSU.	rocedural changes. BIM
· · · · · · · · · · · · · · · · · · ·		•	
8. I hereby certify that the foregoing lays signed	ller TITLE AT	ea Manager	DATE August 23, 1988
(This space for Federal or State office  APPROVED BY  CONDITIONS OF APPROVAL, IF AN	use)		DATE
	*See Instructions	on Reverse Side	

BIM (4) Farmington-UOCCC (3) -Navajo Tribe-Mobil Oil-LAA-AAK
Title 18 U.S.C. Section 1001, makes it a gring for any person knezingly and willfully to make to any department or agency of the